

CLAIMS

1. A method for phenotyping a mammalian subject as a poor or extensive metabolizer with respect to CYP2C19 which comprises:
 - 5 a) administering a dose of racemic mephenytoin to said subject;
 - b) waiting for a period of time;
 - 10 c) obtaining a sample of urine, plasma or saliva from said subject;
 - d) measuring the concentrations of S and R mephenytoin enantiomers.
2. A method of claim 1 wherein said sample is a saliva sample.
- 15 3. A method of claim 1 wherein said is a plasma sample.
4. A method of claim 1 wherein said sample is a urine sample.
5. A method of claim 2 wherein said period of time is two hours.
6. A method of claim 1 wherein said dose is 100 mg of racemic mephenytoin.
- 20 7. A method of claim 3 wherein said period of time is anytime within 8 hours.